

REMARKS

Claims 70-75 are all of the claims pending in the application.

I. Summary of the Office Action

The Examiner withdrew the objections to the drawings and the title of the invention.

Claims 70-75 remain rejected under 35 U.S.C. § 103(a).

I. Claim Rejections under 35 U.S.C. § 103(a)

Claims 70-75 are rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over U.S. Patent No. 7,010,318 to Chang et al. (hereinafter "Chang") in view of U.S. Patent Application Publication No. 2002/0009061 to Willenegger (hereinafter "Willenegger"). Applicant respectfully traverses this rejection and respectfully requests that the Examiner reconsider the rejection at least in view of the comments which follow.

In the Amendment filed on June 30, 2008, Applicant respectfully submitted that Chang discloses a method for controlling uplink transmission control power in a handover region by user equipment (UE) (*see* abstract, claims).

In marked contrast, the cellular system claimed in claims 70 to 75 includes the feature of controlling transmission power of a downlink dedicated channel which may include a TPC signal used for uplink power control. In addition, the mobile station controls a target SIR of a signal received through the downlink dedicated channel and, thereby, can control a reception quality of a transmission power control signal transmitted from a packet transmission base station.

The above-mentioned structure recited in the claims is advantageous in that the transmission power control signal transmitted from the packet transmission base station can be accurately received by the mobile station. Such accurate reception of the transmission power

control signal makes it possible to improve accuracy of the transmission power control of the uplink dedicated channel also and to control or improve the reception quality of a control signal, such as an ACK, NACK signal between the packet transmission base station and the mobile station (*see* page 34, lines 2 to 8 of the specification).

In response to this argument for patentability, the Examiner alleges that Chang explicitly states that the UE receives downlink channel signals from two or more cells, measures power levels of the received downlink channel signals, and transmits a TPC bit having a corresponding bit value to the cells through the radio links (*see* page 2 of the Office Action). Thus, the Examiner alleges that Chang teaches the controlling of downlink channels. Applicant respectfully disagrees.

Claim 70 recites, *inter alia*, “controlling a reception quality of a transmission power control signal included in the downlink dedicated channel sent only from the packet transmission base station, by controlling a target SIR of a signal received through the downlink dedicated channel.”

According to Chang, rather than controlling the reception quality of a transmission control signal included in the downlink dedicated channel sent only from the packet transmission base station, Chang discloses sending a TPC bit to all of the cells when in a soft handover region (*see* col. 1, lines 55-67 of Chang). The target SIR of the signal received through the downlink dedicated channel is not individually controlled.

Applicant respectfully submits that in conventional systems such as that of Chang, in case of using downlink transmission power control along with the soft handover, the mobile station receives downlink signals from a plurality of connection base stations and combines them together, and compares a reception SIR of a downlink signal after the combination with a target

SIR to determine TPC bits. Then, the mobile station transmits the common TPC bits to the plurality of connection base stations and, depending on the TPC bits, the connection base stations respectively increase or decrease the transmission power. *See* page 4, lines 2-9 of the specification.

Applicant respectfully submits that even if the reception SIR of the downlink signal of the packet transmission base station is smaller than the reference SIR, when the reception SIRs of the downlink signals of the base stations other than the packet transmission base station are greater, the reception SIR after the combination becomes greater than the reference SIR. Consequently, each base station decreases the downlink signal transmission power so that the reception SIR of the downlink signal of the packet transmission base station is further reduced. Thus, the reception quality of the TPC signal transmitted from the packet transmission base station is lowered so that the TPC signal reception error increases. *See* page 7, line 23 through page 8, line 3 of the specification.

Chang does not disclose controlling a reception quality of a transmission control signal included in the downlink dedicated channel sent only from the packet transmission base station. Instead, according to Chang, a TPC bit is created considering states of the downlink channel signals received from two or more cells (*see* col. 1, line 67 through col. 2, line 3 of Chang). Accordingly, reception quality of the TPC signal transmitted from the packet transmission base station may be lowered, and the TPC signal reception errors may increase.

Applicant respectfully submits that Willenegger does not cure the deficiencies of Chang, as discussed above. At least for this reason, Applicant respectfully submits that claim 70 is patentable over Chang and Willenegger.

Claims 72 and 74 recite features similar to, although not necessarily coextensive with, the features discussed above with respect to claim 70. Accordingly, Applicant respectfully submits that claims 72 and 74 are patentable over Chang and Willenegger at least for the reasons discussed above with respect to claim 70. Applicant respectfully submits that claims 71, 73, and 75 are patentable over Chang and Willenegger at least by virtue of their dependency on claims 70, 72, and 74.

III. Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly invited to contact the undersigned attorney at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

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